

**QCD and heavy-ion
community workshop on
European Strategy for Particle
Physics Update 2025**

**Rapport sur les
contributions**

ID de Contribution: 1

Type: **Non spécifié**

Welcome from working group GT4: QCD and heavy-ion collisions

jeudi 19 septembre 2024 10:15 (10 minutes)

Orateurs: MUNOZ CAMACHO, Carlos (IJCLab); MARQUET, Cyrille (CPHT - Ecole Polytechnique); WINN, Michael (DPhN/IRFU/DRF/CEA Paris-Saclay)

Classification de Session: Introduction

ID de Contribution: 3

Type: **Non spécifié**

LHCb upgrade II physics programme

jeudi 19 septembre 2024 10:40 (25 minutes)

Orateur: FLEURET, Frédéric (LLR-Ecole polytechnique, CNRS/IN2P3)

Classification de Session: HL-LHC programme in Run 5 and 6

ID de Contribution: 4

Type: **Non spécifié**

ALICE 3 physics programme

jeudi 19 septembre 2024 11:05 (25 minutes)

Orateur: MAIRE, Antonin (IPHC Strasbourg - CNRS)

Classification de Session: HL-LHC programme in Run 5 and 6

ID de Contribution: 7

Type: **Non spécifié**

FCCee with emphasis on QCD

jeudi 19 septembre 2024 13:00 (25 minutes)

Orateur: D'ENTERRIA, David (CERN)

Classification de Session: Future colliders at CERN

ID de Contribution: 8

Type: **Non spécifié**

Accelerator technologies with potential for QCD beyond the LHC

jeudi 19 septembre 2024 13:25 (20 minutes)

Technology status

- High-field magnet: high-energy hadron beams fixed-target/collider with smaller synchrotrons than LHC and in view of FCC-hh
- Energy Recovery LINAC: high-energy, high-intensity electron beam for fixed-target or collider
- Plasma-wave acceleration: very high-energy, low-intensity electron beam for fixed-target or collider (TBC)

Orateur: Dr FAUS-GOLFE, Maria De Los Angeles (IJClab)

Classification de Session: Future colliders at CERN

ID de Contribution: 9

Type: **Non spécifié**

Guided discussion on community inputs w.r.t. Run 5 and 6 programme, time-parallel activities and w.r.t. future colliders at CERN

jeudi 19 septembre 2024 13:45 (1 heure)

Goal:

find factual statement w.r.t. community repartitions and consensus (or close-to) statements w.r.t. accelerator schedule and requirements in terms of human resources and investment already to be taken into account when writing inputs

Orateurs: BALDISSERI, Alberto (IRFU/SPhN, CEA Saclay); URAS, Antonio (IPNL Lyon); M. MARTINEZ, Gines (Subatech CNRS/IN2P3 - IMT Atlantique - Nantes Universite)

Classification de Session: Discussions on HL-LHC and future colliders

ID de Contribution: 11

Type: **Non spécifié**

Round table on: theory perspectives for QCD in heavy-ion collisions at the HL-LHC, hadron structure at HL-LHC and EIC, precision physics at lepton colliders

jeudi 19 septembre 2024 15:15 (1 heure)

Goal:

- requirements
- open questions in this field

Orateurs: MARQUET, Cyrille (CPHT - Ecole Polytechnique); GOSSIAUX, Pol (Subatech)

Classification de Session: Theory

ID de Contribution: 16

Type: **Non spécifié**

Synergy between CERN projects and EIC: physics and technology

jeudi 19 septembre 2024 16:15 (20 minutes)

Orateur: BOSSU, Francesco (CEA-Saclay)

Classification de Session: Synergy and interdependence between CERN-based projects and other projects

ID de Contribution: 19

Type: **Non spécifié**

Discussion on synergy and interdependence between different accelerator-based activities

jeudi 19 septembre 2024 16:35 (20 minutes)

Goal:

find factual statement w.r.t. R&D interdependence and requirements in terms of human resources and investment already to be taken into account when writing inputs

Orateurs: MUNOZ CAMACHO, Carlos (IJCLab); WINN, Michael (DPhN/IRFU/DRF/CEA Paris-Saclay)

Classification de Session: Synergy and interdependence between CERN-based projects and other projects

ID de Contribution: **20**

Type: **Non spécifié**

French input to EPPSU: procedure and calendar

jeudi 19 septembre 2024 10:25 (10 minutes)

Orateurs: MOUTARDE, Herve (CEA-IRFU-SPHN); VACAVANT, Laurent (IN2P3); GRASSO, Marcella (IN2P3)

Classification de Session: Introduction

ID de Contribution: 21

Type: **Non spécifié**

Proton-nucleus collisions: future opportunities

jeudi 19 septembre 2024 11:30 (25 minutes)

Orateurs: LANSBERG, Jean-Philippe (IJCLab - Université Paris-Saclay - CNRS (FR)); LANSBERG, Jean-Philippe (Paris-Saclay U. - IJCLab - CNRS)

Classification de Session: HL-LHC programme in Run 5 and 6